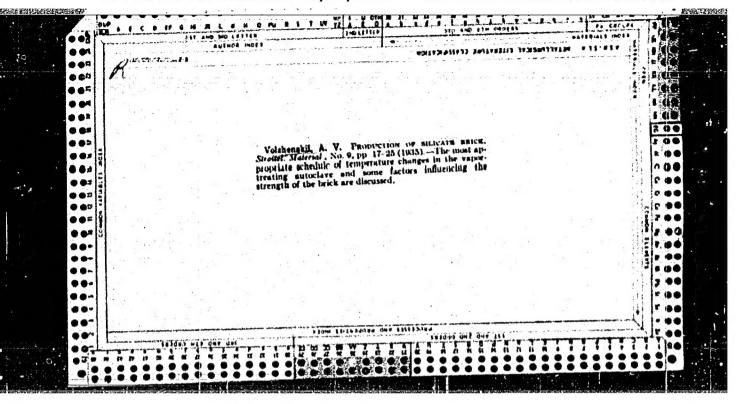
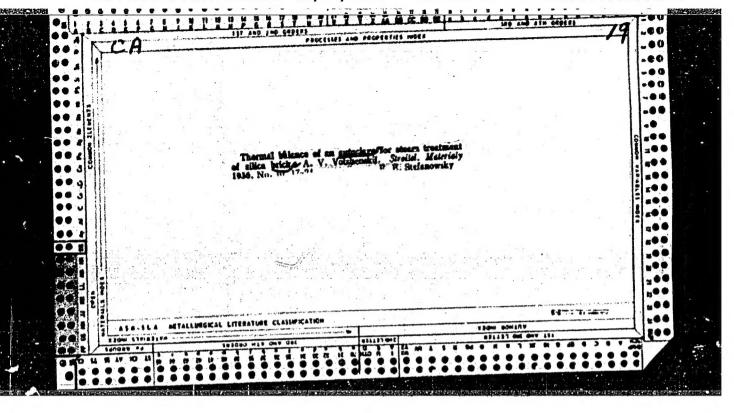


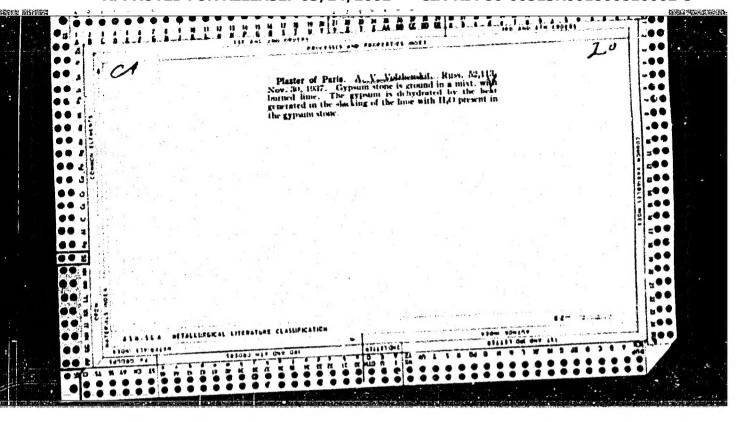
VOIZHENSKIY, A.V., ; f., doktor tekhn.nauk; FERRONSKAYA, A.V., kand.tekhn.nauk;
MIKHAYLOVA. G.F., inzh.

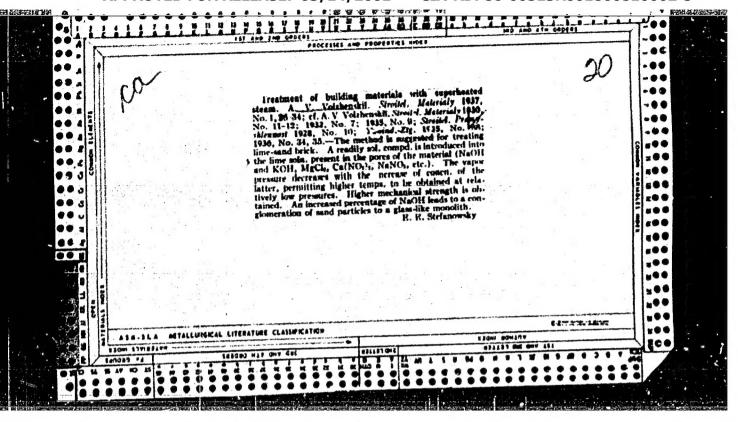
Sulfate resistance of gypsum-cement-pozzuolan and gypsum-slag-cement
binders of improved strength. Stroi. mat. 11 no.10:30-31 0 '65.

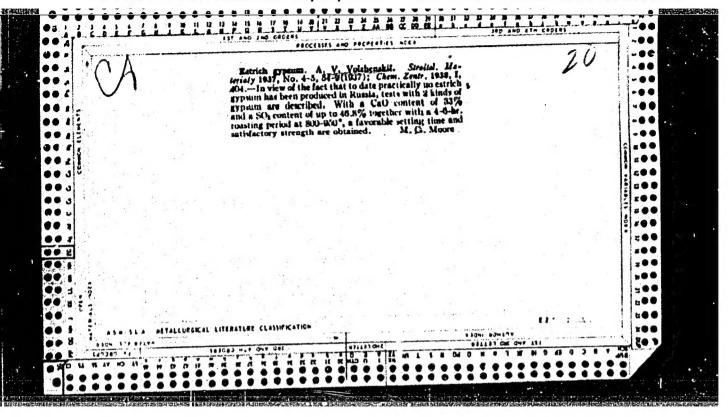
(MIRA 18:10)

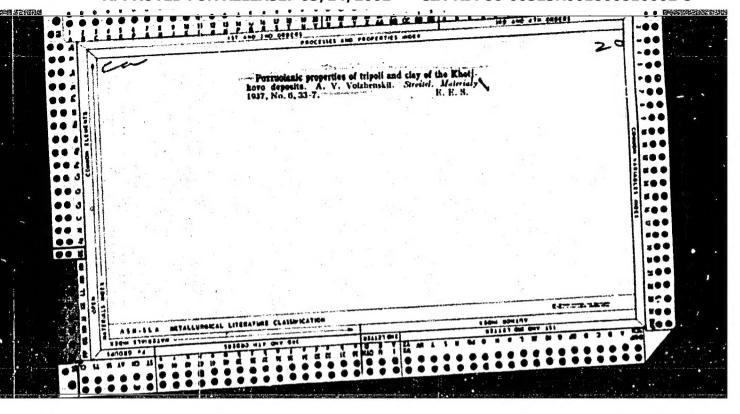


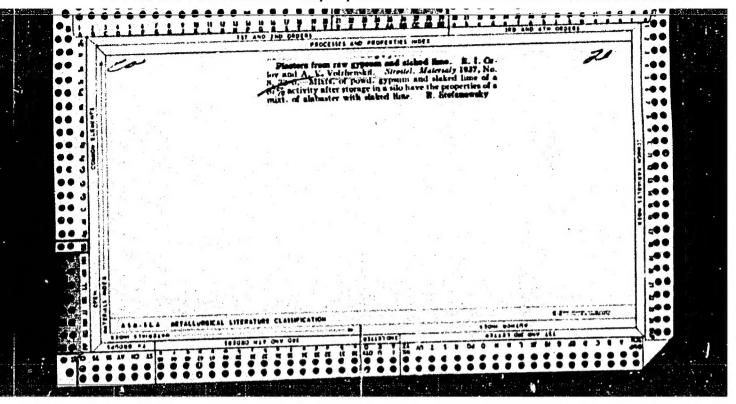


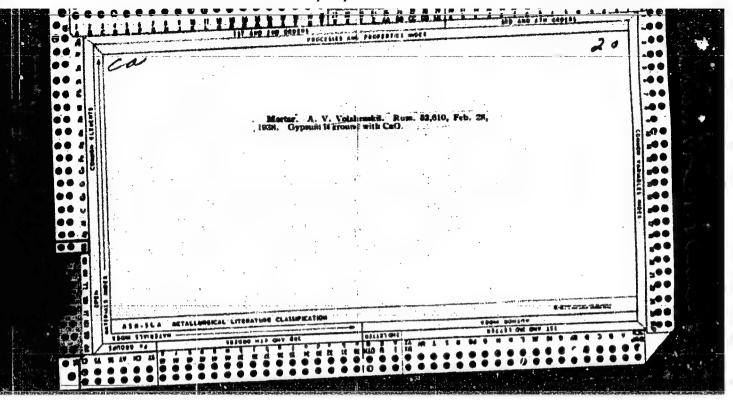


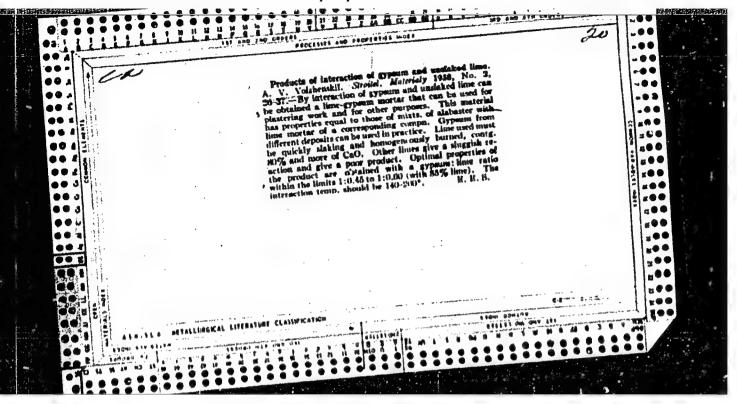


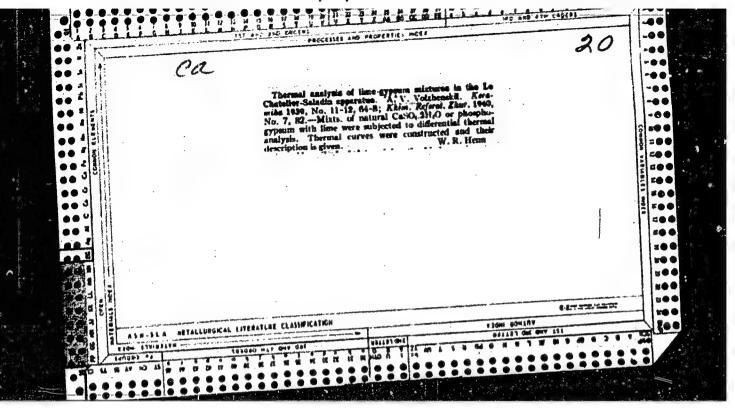


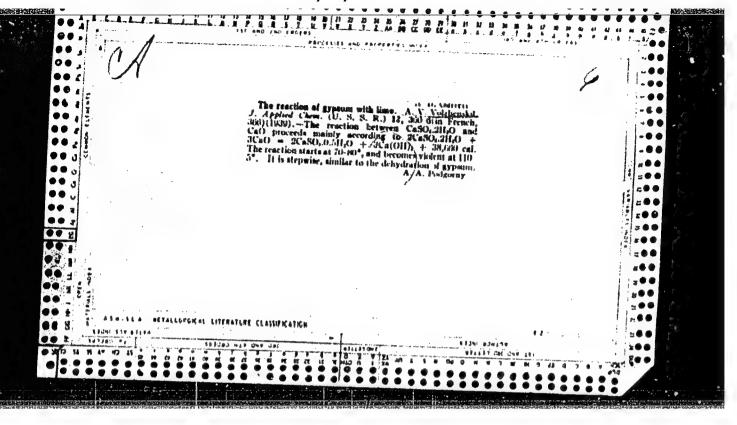


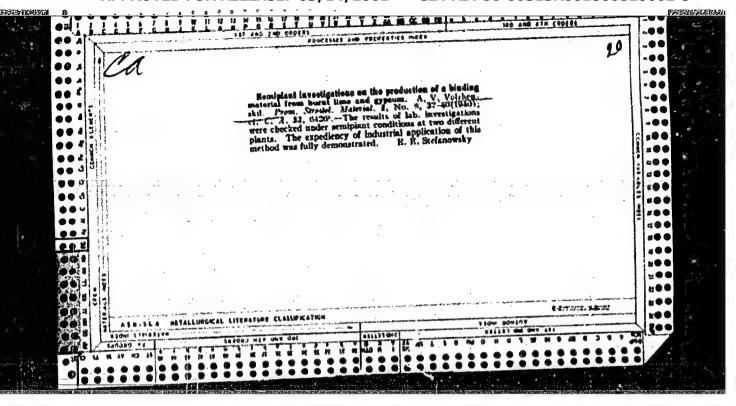


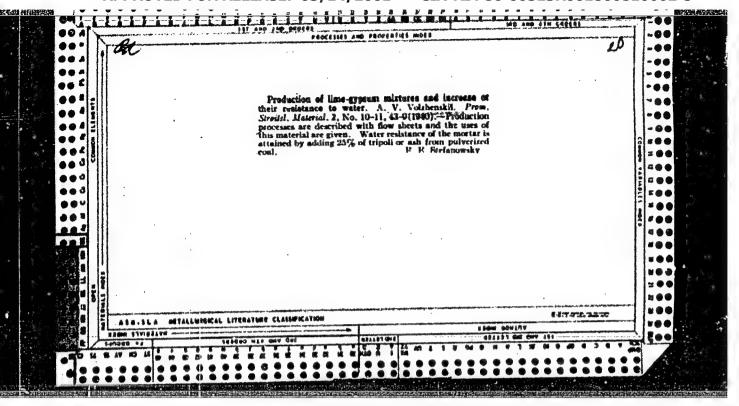


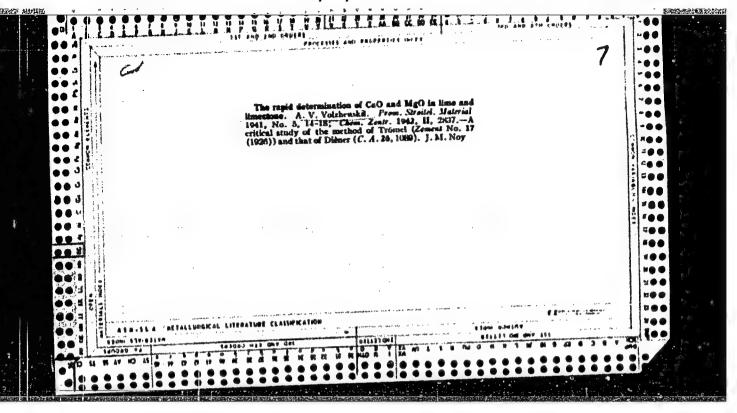


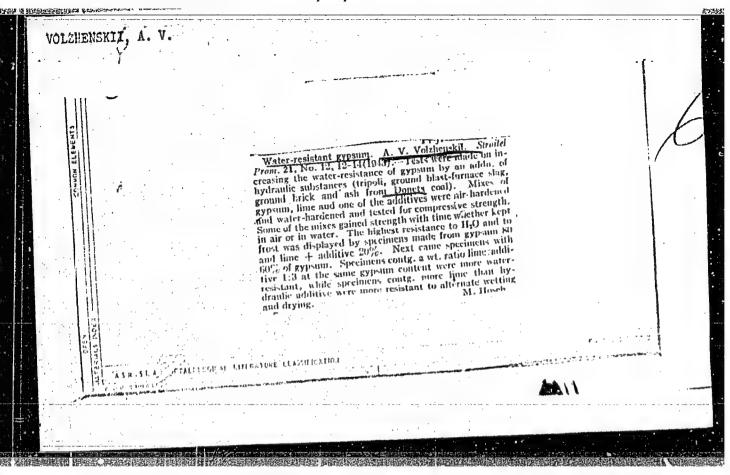


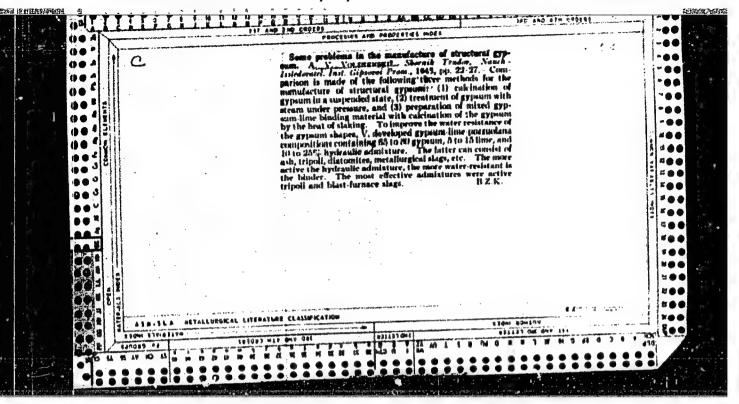












VOLZHENSKIY, A. V.

VOLZHENSKIY, A. V. and KISLYAKOV, L. A. "Gypsum materials and goods for constructing high buildings", Hest. stroit. materialy, 1948, Issue 6, p. 22-26.

SO: U-30h2, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 7,9h9).

32441. Gaysinskiy, T. Ye. i Abashkina, B. F. Vliyaniye obrabotki na begunakh tsementykh rastvorov i betonov na skorost ikh tverdeniya. Materialy i konstruktsii v sovr. arkhitekture, No. 3, 1949, s. 100-07.

50: Letopis' Zhurnal'nykh Statey Vol. 44

IVANOV, I.T., kandidat tekhnicheskikh nauk, otvetstvennyy redaktor;
ANTONOV, K.K., redaktor; VOLZHENSKIY, A.V., redaktor; GORNOV, V.N.,
redaktor; KUZNETSOV, G.F., redaktor; PEVENER, I.V., inzhener,
redaktor; ROTERT, P.P.; FRIDERRG, G.V., redaktor; PECHKOVSKAYA,
T.V., tekhnicheskiy redaktor

[Skyscraper designs; experience in design and construction] Konstruktsii vysotnykh zdanii; iz opyta proektirovaniia i vozvedeniia. Red. kollegiia I.T.Ivanov, K.K.Antonov, A.V.Volshenskii i dr. Hoskva, kollegiia I.T.Ivanov po stroitelistvu i arkhitekture, 1952. 103 p. [Microfilm]

l. Chlen-korrespondent Akademii arkhitektury SSSR (for Antonov, Volshenskiy, Gornov, Kuznetsov, Rotert) 2. Akademiya arkhitektury SSSR, Moscow. Institut stroitel noy tekhniki.

(Skyscrapers) (Architecture-Designs and plans)

VOLZHENSKIY, A., Prof.; KOGAN, G., Eng.

Plaster of Paris

Use of large panels made of plaster of Paris and concrete for partitions. Biul. stroi. tekh. 10, No. 5, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

the second second second second second		_' -	-
VOI TURNSKTY, A. Prof.	. KOGAN,	G.	ing.

- 2. USSR (600)
- L. Concrete Blocks
- 7. Use of large panels made of plaster of Paris and concrete for partitions, Piul. stroi. tekh. 10 No. 6, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Unclassified.

VOIZHENSKIY, A.V., professor, chlen-korrespondent.

On heat insulating materials for reinforced concrete wall panels. Biul. stroi.tekh. 10 no.10:23-25 My 153. (MLRA 6:8)

1. Akademiya arkhitektury SSSR.
(Insulation (Heat)) (Reinforced concrete construction)

VOLZHENSKIY, A.V., professor; KISLYAKOV, L.A., kandidat tekhnicheskikh maur; TEHKIN, L.Ye., inshener, nauchnyy redaktor; ROSTOYTSEVA, H.P., redaktor; PERSON, M.N., tekhnicheskiy redaktor

[Production of hollow reinforced-concrete beams and panels for ceilings and floors] Proisvodstvo shelesobetonnykh pustotelykh balok-nastilov i panelei perekrytli. Moskva, Gos. isd-vo lit-ry po stroitel stvu i arkhitekture, 1954, 60 p. (MLRA 7:10)

1. Chlen-korrespondent Akademii arkhitektury SSSR (for Volshenskiy)
(Girders) (Precast concrete construction)
(Floors, Concrete)

VOLZHENSKIY, A.V., professor, doktor tekhnicheskikh nauk; KOGAN, G.S., kandidat tekhnicheskikh nauk; ARBUZOV, N.T., kandidat tekhnicheskikh nauk; SOROKER, V.I., kandidat tekhnicheskikh nauk, redaktor; GIMPEL SOH, A.Z., redaktor; LYUDKOVSKAYA, N.I., tekhnicheskiy redaktor

[Gypstm-concrete panels for partitions and inner lining of outside walls] Gipsobetonnye paneli dlia peregorodok i vnytrennei oblitsowki naruzhnykh sten. Moskva, Gos. izd-vo lit-ry po stroitel:-nym materialam, 1955. 184 p. (MLRA 9:7)

1. Chlen-korraspondent Akademii arkhitektury SSSR (for Volshenskii)
(Goncrete slabs)

VOIZHENSKIY, A., professor; IVANNIKOVA, R., inzhener

Gypsum cement and gypsum slag binding materials. Stroi. mat.
izdel. i konstr. 1 no.4:13-16 Ap*55. (MIRA 8:10)

1. Chlen-korrespondent Akademii arkhitektury SSSR (for Voizhenskiy)

(Gypsum) (Building materials)

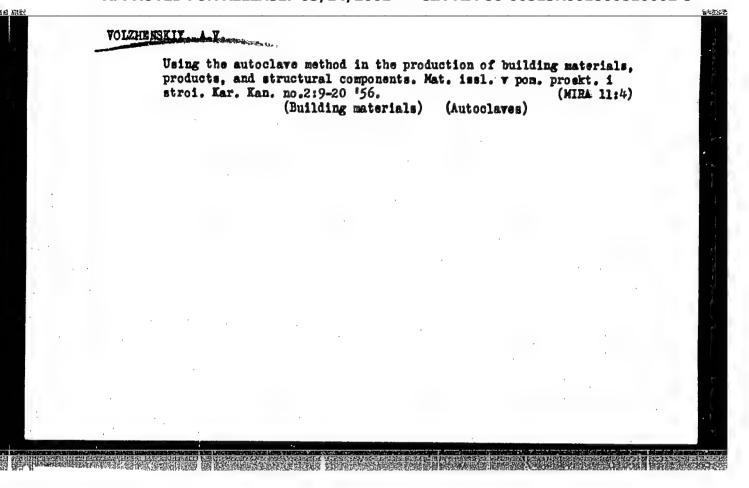
VOLZHENSKIY, A.V., professor; KOGAN, G.S., inchener.

Making large gypsum concrete panel wall slabs on stands having tilting platforms. Rats. i izebr.predl. v strei. ne.121:3-11 55.(MIRA 9:7) (Walls) (Concrete slabs)

VOLOZHENSKIY, A.V., professor, redaktor; SHVARTSZAYD, M.S., kandidat tekhnicheskiy nauk, redaktor; IVANOV, O.M., kandidat tekhnicheskikh nauk, nauchnyy redaktor; TUMARKIN, D.M., inzhener, redaktor izdatel'stva; VOLKOV, V.S., tekhnicheskiy redaktor; MEL'NICHENKO, F.P., tekhnicheskiy redaktor

[Autoclave materials and articles; a collection of articles]
Avtoklavnye materialy i izdeliia; sbornik statei. Pod red. A.V.
Volzhenskogo i M.S.Shvartszaida. Moskva, Gos. izd-vo lit-ry po
stroit. i arkhitekture, 1956. 125 p. (MIRA 9:7)

1. Akademiya arkhitektury SSSR, Moscow. 2. Chlen-korrespondent (Autoclaves)



Translation from: 15-57-10-14334 Referativnyy zhurnal, Geologiya, 1957, Nr 10,

p 159 (USSR)

AUTHORS: Volzhenskiy, A. V., Shvartszayd, M. S., Ivanov, V. I.

TITLE:

Autoclave-Treated Structural Products and Details of the Kara-Kum Sands (Avtoklavnyye stroitel'nyye izdeliya

i detali iz karakumskikh peskov)

V sb.: Materialy issledovaniy v pomoshch' proektir. PERIODICAL:

i str-vu Karakumsk. kanala. Nr 2, Ashkhabad, AN Turkm

SSR, 1956, pp 27-66

ABSTRACT: The Kara-Kum sands contain 77 to 83 percent silica and

7 to 13 percent sesquioxides. They are very fine-grained (dominant grain diameter of 0.15 mm to 1.3 mm).

After partial regrinding of this sand, milling it together with slaked lime, and submitting it to special autoclave treatment, it may be used both for cellular

(foamy silicate) and dense silicate materials and

products. It may also be used to make silicate bricks Card 1/1 meeting GOST (All-Union State Standard) requirements.

V. P. Yeremeyev

USSR/Chemical Technology - Chemical Products and
Their Applications - Silicates. Glass.
Ceramics. Binders.

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 9084

Author : Volzhenskiy, A.V., and Burov, Yu.S. Inst

Title : The Application of Autoclave Treatment in the Preparation of Aggregate Concrete and Reinforced Concrete.

Orig Pub : Beton i zhelezobeton, 1956, No 8, 277-280

Abstract: The properties of autoclave-hardened concrete and of concrete hardened under normal conditions are described. The concrete was prepared from six cements of varying mineral composition. Autoclave treatment considerably increases the hardening rate of concrete and

Card 1/

YDLZHENSKIY, A.Y.

"APPROVED FOR RELEASE: 03/14/2001 CIA-RI

CIA-RDP86-00513R001860810002-5

USSR/Chemical Technology - Chemical Products and I-10
Their Applications - Silicates. Glass.

Ceramics. Binders.

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 9084

makes it possible to obtain a concrete which after steaming has a strength equal to the R₂₈ / TN: crushing strength?; see translation abstract 9069 / of normally hardened concrete. The substitution of a part of the cement with finely ground sand markedly increases the strength of the steamed concrete. When a charge of 170-250 kg/m³ of cement clinker is used, the strength of the concrete can be increased 30-70% by the addition of finely ground sand or, alternately, 50% of the clinker may be substituted with finely ground sand without a reduction in the strength of the concrete. By the application

Card 2/

USSR/Chemical Technology - Chemical Products and I-10
Their Applications - Silicates. Glass.

Ceramics. Binders.

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 9084

of autoclave hardening, it is possible to obtain from fine-grained Karakum sand a concrete which has a strength exceeding by a factor of 1.5 - 2 that of normally hardened concrete. Autoclave treatment is particularly effective in the case of concretes prepared from beletic and mixed cements as well as concretes prepared from waste metallurgical slags and from ashes. After autoclave hardening concretes prepared from mixed bonds (50% ground quick-lime and 50% ground sand) have a strength equal to 100-160% that of normally hardened concrete prepared with the expenditure of an equal amount of cement clinker. Finely ground limesand concretes prepared from a mixed bond charge

Card 3/4

USSR/Chemical Technology - Chemical Products and
Their Applications - Silicates. Glass.
Ceramics. Binders.

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 9084

of 400-500 kg/m³ (ground quicklime and ground sand in the ratio 1:1) after autoclave hardening have the same strength as normally hardened concrete cements prepared from portland cement charges of 300-400 kg/m³. Autoclave-hardened concretes prepared from ground quicklime have withstood over 100 cycles of alternate freezing and thawing; similar concretes prepared from hydrated lime were destroyed after 15-25 cycles. Best results are obtained from an economic point of view when the articles are held at maximum temperature and a pressure of 8-15 atm for 4-8 hours.

Card 4/4

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860810002-5

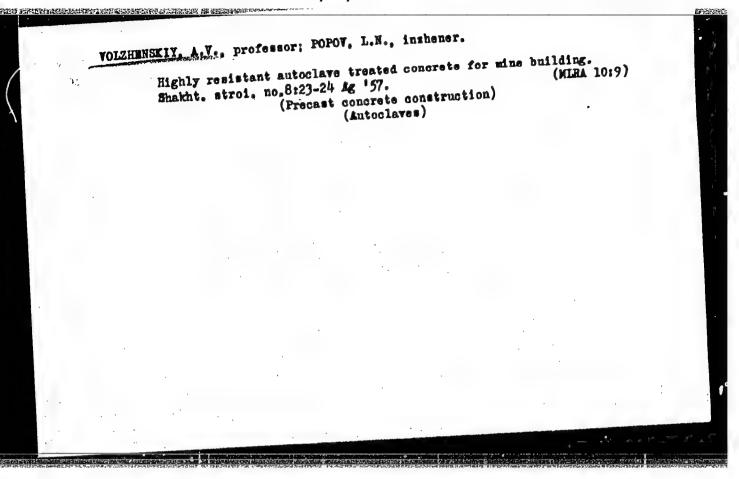
VOLZHENSKIY, A., doktor tekhnicheskikh nauk; BUROV, Yu., kandidat
tekhnicheskikh nauk.

Using waste slags and ashes as binding materials for antoclave products.
Stroi.mat. 3 no.1:34-35 Ja '57.

(Building materials)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860810002-5



VOLZHENSKIY, A.V. VOLZHENSKIY, A.V., prof.; MOCHALOV, A.I., inzh.; EUROV, Yu.S., kand. tekhn.nauk; SILAYENKOV, Ye.S., inzh. Autoclaved concrete made with metallurgical slag and ash binders.
Bet. i zhel. -bet. no.8:322-325 Ag 157. (MIRA 10:10) 1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury (for Volzhenskiy) (Concrets)

1979年中的1978年1月1日 1978年1月1日 1978年1月1日 1978年1日 1978年1日 1978年1日 1978年1日 1978年1日 1978年1日 1978年1日 1978年1日 1978年1日 1

VOLZHENSKIY, A.V., prof., doktor tekhn.nauk, red.; GUROV, Yu.S., red.izd-va;

[Properties of autoclave concretes and products made from them; collected articles] Svoistva avtoklavnykh betonov i izdelii iz nikh; sbornik statei. Pod red. A.V.Volzhenskogo. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1958. (MIRA 11:6) 167 p.

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut novykh stroitel'nykh meterialov, otdelki i oborudovanija zdanii. 2. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Volshenskiy) (Concrete)

VOLZHENSKIY, A.V., prof., doktor tekhn.nauk

Hew possibilities for making autoclave hardened building products. man a marking to be the said and the said of the Wauch.dokl.vys.shkoly; stroi. no.1:150-157 '58.

1. Deystvitel nyy chlen Akademii stroitel stva i arkhitektury SSSR.
2. Rekomendovana kafedroy tekhnologii vyazhushchikh, betonov i keramiki Moskovskogo inzhenerno-stroitel nogo instituta imeni V.V. Kuybysheva.

(Autoclaves) (Concrete)

VOLZHENSKIY, A.V., prof.; POFOV, L.N., insh.

Using mixed fine ground portland cessents in preparing concretes.

Bet. i zhel.-bet. no.3:88-93 Kr '58. (MIRA 11:3)

L. Doystvitel'nyy chlen akademii stroitel'stva arkhitektury SSSR (for Volshenskiy). (Concrete)

VOLUMESKIY, A., doktor tekhn.nauk; SILAYENKOV, Ye., inzh.

Behavior of steel reinforcements in slag-sand concrete products.

(KIRA 11:11)

Stroi.mat. 4 no.10:30-31 0'58.

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR.

(for Volzhenskiy).

(Reinforced conorete)

SOV/97-58-10-2/17 ·

AUTHORS: Volzhenskiy, A.V., Member of ASiA SSSR, Professor; and Stambulko, V.I., Engineer

Gypsum-Cement-Polluciana Binding Materials and Concretes TITLE:

Based on them (Gipsotsementnoputstsolanovyye vyazhustchiye

veshchestva i betony na ikh osnove)

PERIODICAL: Beton i zhelezobeton, 1958, Nr 10, pp 363-367 (USSR)

ABSTRACT: Investigations carried out show that a combination of

gypsum, portland cement and hydraulic additives (tripoli, waste aluminium sulphate and various acid concentrates

obtained by burning fuels) can be used to obtain rapid-hardening hydraulic binding materials. A minimum

content of 20-25% of cement is used with gypsum contain-

ing 60-50% of water and 20-25% of active hydraulic

additive. The amount of this additive should be strictly controlled so that the concentration of calcium oxide in

aqueous solution does not exceed 0.7-0.9 g/l during the

first 2-7 days of hydration. Gypsum-concrete-pozzuolana binders using quantities of 300-400 kg/m3 give rapid-

hardening, water-stable concretes marks 75-150, and Card 1/4 plasters marks 25-75. The combination of these

materials was worked out in MISI imeni V.V. Kuybyshev.

SOV/97-58-10-2/17

Gypsum-Cement-Pozzuolana Binding Materials and Concretes Based on them

Nr. 104 Trust in Leningrad is manufacturing panels based on hydro-cement binders. Glavmosstroy, together with ASIA SSSR and MISI, are preparing for the manufacture of partition panels based on the above materials. with these materials have not all been successful; where the products were not satisfactory the cause was usually due to the formation of complex salts in hardened concrete, as, for example, 3CaO.Al203.3CaS04.31H20. It is assumed that the formation of this salt from calcium aluminate and gypsum is simultaneous with an increase (2.2) of the solid phase, absolute volume which brings about strong tensions in cement resulting in collapse of the construction. Formation of hydrosulpho-aluminate of calcium in concrete was studied by Lafuma (Ref 2), V.N. Yung (Ref 3), P.P. Budnikov (Ref 4), V.M. Moskvin (Ref 5) and others. A high concentration of calcium hydroxide in aqueous solution is responsible for the formation of 3CaO.Al203.Ca(OH)2.nH20 during the phase of hardening of cement. The results of the tests lead us to assume that the compounds have considerable

Card 2/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860810002-5"

SOV/97-58-10-2/17

Gypsum-Cement-Pozzuolana Binding Materials and Concretes Based on them

resistance against the action of sulphides of sodium and calcium, and partial resistance against magnesium. The problem of obtaining hydraulic gypsum-coment-pozzuolana binders with a predominant gypsum content was studied in MISI by A.V. Volzhenskiy and R.V. Ivannikova, and further investigated by the au hors of this article. The authors assume that active hydraulic additives introduced in proper quantities in the system gypsum + portland cement + water, or gypsum + granulated blast furnace slag + water, fulfil two basic functions: (1) they lower the concentration of calcium hydroxide in aqueous solution, and (2) they bind sulphates and calcium aluminate and form complex compounds. gives results of investigations defining the effect of the composition and activity of cements and tripoli on the physical and mechanical properties of binders. Table 2 shows that increased content of tripoli favourably Fig 1 influences the properties of these materials. Card 3/4 shows graphically changes of concentration of CaO in aqueous solution of gypsum, portland cement and

Gypsum-Cement-Pozzuolana Binding Materials and Concretes Based on them

hydraulic additives. The graph in Fig 2 shows changes of strengths of concrete with time and varying content of gypsum-cement binders. There are 2 figures, 2 tables and 12 references, of which 6 are Soviet, 1 Swedish, 2 English, 2 French and 1 German.

Card 4/4

VOLZHENSKIY, A.V., doktor tekhn. nauk; KOGAN, G.S., kand. tekhn. nauk; TSUKANOV, Yu.S.,

[Gypsum-cement-puzzuolanic binding materials and concretes on their base] Gipsotsementnoputstsolanov viazhushchio veshchestva i betony na ikh osnove. Riazan¹, Riazanskaia kompleksnaia nauchno-issl. stantsiia-laboratoriia po sel¹-skomu stroitel¹stvu NIISZ AS i SSSR, 1961. 48 p.

(MIRA 17:8)

VOLZHENSKIY, A.V.; OLADKIKH, K.V.

Binders made of granulated fuel slags. Mauch.dokl.vys.shkoly; stroi. no.1:171-178 '59. (MIRA 12:10)

l. Rekomendovana kafedroy tekhnologii vyazhushchikh betonov i keramiki Moskovskogo inzhenerno-stroitelinogo instituta imeni V.V.Kuybysheva.

(Binding materials) (Slags)

VOLZHENSKIY, A.V.: SILAYENKOV, Ye.S., inzh.

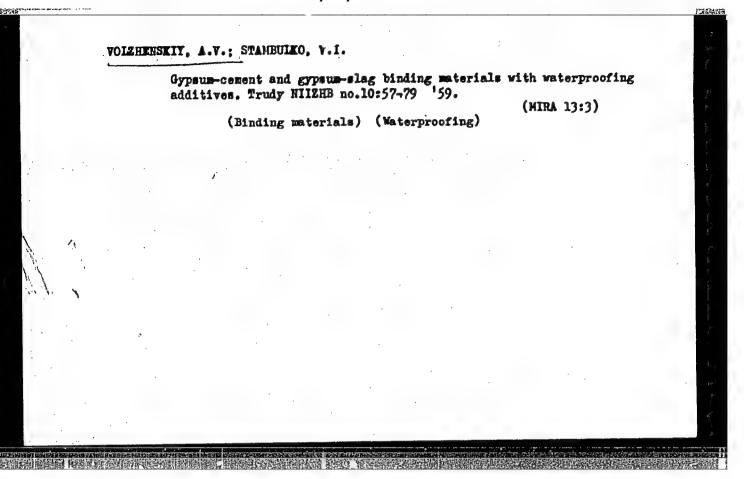
Deformation of fine grained autoclave hardened concretes caused by the change of their moisture content. Bet. i zhel-bet. no.4:175-179 Ap '59. (MIRA 12:6)

1. Deystvitel'nyy chlen Akademii stroitel'stva 1 arkhitektury SSSR (for Volshenskiy). (Concrete--Testing)

VOIZHENSKIY, A.V. prof.; :SYSOYEV, R.V., inzh.

Effect of various admixtures and autoclave processes on the activity of blast-furnace waste slags. Stroi. mat. 5 no.5: 27-29 Hy '59. (MIRA 12:8)

1.Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury (for Volzhenskiy). (Slag—Testing)



VOLZHENSKIY, A.V., prof., doktor tekhn.nauk

Rolation of structure and quality of cement stone to its formation and hardening. Stroi.mat. 10 no.4:10-13 Ap '54. (MIRA 17:5)

VOLZHENSKIY, A.V., prof., doktor tekhn. nauk; PECHURO, S.S.

Requirements of industrial construction and the gypsum industry. Stroi. mat. 10 no.1:15-18 Ja'64. (MIRA 17:5)

1. Glavnyy spetsialist Gosudarstvennogo instituta po proyektirovaniyu predpriyatiy promyshlennosti stroitel'nykh materialov (for Pechuro).

VOLZHENSKIY, A.V., prof.; TIRANOVA, T.M., inzh.

Clinkerless binding materials made out of phosphoric slag. Stroi. mat. 9 no.6:31-33 Je 163. (MIRA 17:8)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Volzhenskiy).

L 27102-66 ENT(m)	
ACC NR. AP6017414 SOURCE CODE: UR/0097/65/000/010/0033/0	035
	6
AUTHOR: Volzhenskiy, A. V. (Doctor of technical sciences; Professor); Stambulko, V. I. (Candidate of technical sciences); Aradovskiy, Ya. L. (Engineer)	/3
ORG: none	
TITIE: Gypsum-cement-pozzolana concrete for panel-type retaining structures	
SOURCE: Beton i zhelezobeton, no. 10, 1965, 33-35	
TOPIC TAGS: concrete, tensile strength, elastic modulus	
ABSTRACT: Rigid gypsum-cement-pozzolana concrete can be used for making	
panel-type retaining structures since it satisfied the requirements of Con-	
struction Specifications and Regulations. About 360-450 kg of binding	
(material is used per m3 of concrete in producing heavy CCP concretes	
(grades 150 and 200). Clay-filled concrete and mortar of grades 150 and higher requires 420-550 kg of GCP binder per cubic meter of concrete.	
Tests show a continuous increase in the strength of all specimens with	
time. In one year a strength increase of 25-30% over the 28-day strength	1
was observed. Prismatic specimens of GCP concrete show a somewhat greater	
strength then that stipulated by Construction Specifications and Regulations.	
The prismatic tensile strength meets the construction requirements. A study of the deformative properties of rigid GCP concretes under momentary loading	
shows that maximum compressibility is equal to that of ordinary concrete,	
The state of the s	7/
William 16: 17: 18: 18: 18: 18: 18: 18: 18: 18: 18: 18	
Cord 1/2 UDC: (666.944.001.5:69.022.4	

being 0.7.	26017414 10-3, 1.2:10-3 and 1.0:10-3 for heavy and light concretes and more on GCP binding material, respectively. The modulus of elasticity ression is (3.1-3.5):105 kg/cm ² for heavy GCP concretes, (1.3-1.48)	1 1 17 2
·105 kg/cm which meet The paper	of for clay-filled concrete and (1.8-2.4).105 kg/cm2 for mortar, the requirements of Construction Specifications and Regulations. Has written in support of Engineer Xn. L. Aradovskiy's thesis.	
	has: 3 figures and 4 tables. [JPRS] 11, 20 / SUEM DATE: none	
	では <mark>なる情報であった。 A See A S</mark>	
Card 2/2 K/		-

L 16601-66 EWT(m)	
ACC NR: AP6012177 (A) SOURCE CODE: UR/0413/66/000/007/0	116/0116
INVENTOR: Volzhenskiy, A. V.; Kogan, G. S.; Tsuranov, L. H.	8
ORG: none	
TITLE: Light-weight concrete. Class 80, No. 180514 [announced by the All-U Scientific Research Institute of New Construction Materials, Academy of Cons	nion truction
and Architecture SSSR (Vsesoyuznyy nauchno-issledovatel skiy institut novykh	·
stroitel'nykh materialov akademii stroitel'stva i arkhitektury SSSR)]	· \$5.
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7, 1966	, 110
TOPIC TAGS: concrete, light weight concrete , construction material	
ABSTRACT: An Author Certificate has been issued for light-weight concrete we gypsum-cement binder and a porous mineral filler. In order to have the fill as the active hydraulic additive, a porous clay filler in a mixture with a becontaining 75—80% construction gypsum and 20—25% portland cement is suggested.	oinder d
the filler.	[m]
SUB CODE: 11/ SUBM DATE: 21Jan63/	-
Card 1/1afs UDC: 666.973.022.2	
CONTROL OF THE PROPERTY OF THE	Maria Aller
	n de secondo de del grando de la companya del companya del companya de la company

GERSHBERG, Osip Abramovich, prof., doktor tekhn. nauk, laureat
Gosudarstvennoy premii: VOLZHENSKIY, A. V., prof., retsenzent;
SIZOV. V.N., prof., doktor tekhn. nauk, retsenzent; IVANO7,
F.M., kand. tekhn. nauk, nauchn. red.

[Technology of concrete and reinforced concrete products]
Tekhnologiia betonnykh i zhelezobetomnykh izdelii. Moskva,
Stroiizdat, 1965. 326 p. (MIRA 18:8)

1. Rukovcditel* kafedry "Terhnologiya vyazhushchikh veshchestv i betonov" Moskovskogo inzhenerno-stroitel*nogo instituta im. V.V.Krybysheva (for Volzhanskiy). 2. Rukovoditel* kafedry "Stroitel*nyye materialy i izdeliya" Vsesoyuznogo zaochnogo politekhnicheskogo instituta (for Sizov).

 VOLZHENSKIY, A.V., prof., d ktor tekhn.nauk; GLADKIKH, K.V., dotsent, kand.

Some ways of improving cellular concrete products. Strol.mat. 10 no.12:26-28 D *64. (MIRA 18:1)

VOLZHENSKIY, Aleksandr Vasil'yqvich, Laureat Leninskoy premii, doktor tekhn. nauk, prof.; BUROV, Yuriy Sergeyevich, kand. tekhn. nauk; VINOGRADOV, Boris Nikolayevich; GLADKIKH, Klara Vasil'yevna, kand. tekhn. nauk; NIKOLAYEVA, N.M., red.izd-va; SHERSTNEVA, N.V., tekhn. red.

[Concretes and products based on slag and ash cements; hardened in steam chambers and autoclaves] Betony i izdeliia na shlakovykh i zol'nykh tsementakh; pri tverdenii v proparochnykh kamerakh i avtoklavakh. Pod obshchei red. A.V. Volzhenskogo. Moskva, Gosstroiizdat, 1963. 361 p. (MIRA 16:12)

(Precast concrete)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860810002-5

YOLZHENSKIY, A.V., prof., zasluzhennyy deyatel' nauki i tekhnik'
RSFSR; IL'YENKO, I.A., inzh.; VINCKRADOV' B.N., inzh.

Deformation and atrength proporties of concretes made with binding materials based on fuel gramulated slagn. Bet. i zhel.-bet. 8 no.12:549-553 D'62. (MIRA 16:2)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Volzhenskiy). (Concrete—Testing)

(Slag)

 BUDNIKOV, P.P.; ALEKPEROV, M.S.; BAKLANOV, G.M.; BOLDYREV, A.S.;

BOS'KO, K.D.; VQLEHEISKIY, A.V.; GROKHOTOV, N.V.; ZHUKOV, A.V.;

ZABAR, L.B.; KITAYEV, Te.H.; KCSHKIN, V.G.; KHUPIH, A.A.;

MURCASKIY, P.G.; POPOV, A.N.; SUKHOTSKIY, S.F.; USPENSKIY, V.V.;

KHINT, I.A.; SHVAGIREV, M.P.; YUSHKEVICH, M.O.

Conference on increasing the durability of corrugated roofing sheets. Stroi.mat. 8 no.1:p.3 of cover Ja '62. (MIRA 15:5)

(Roofing)

VOIZHENSKIY, A.V., laureat Leninskoy premii, prof., doktor tekhn.nauk;

VOROB'YEV, I.A.; GLADKIKH, K.V., inzh.; VINOGRADOV, B.N., inzh.;

IL'YENKO, I.A., inzh.

Use of binding materials made of gramulated fuel slag for the mamufacture of wall materials. Stroi. mat. 8 no.5:5.8 My '62. (MIRA 15:7)

1. Direktor zavoda stenovykh blokov No.21 Glavnogo upravleniya promyshlennosti stroitel'nykh materialov pri ispolnitel'nom komitete Moskovskogo gorodskogo Soveta deputatov trudyashchikhsya (for Vorob'yev).

(Slag)
(Building materials)

VOLZHENSKLY, A.V., laureat Leninskoy premii, prof.; GLADNIKH, K.V., inzh.;

CHEN'-KHUA-IN [Ch'en-Hua-ying] inzh.

Air-entrained slag concretes obtained by thermal treatment in steam chambers. Stroi. mat. 8 no.6:16-19 Je '62. (MIRA 15:7)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Volzhenskiy).

(Lightweight concrete)

(Slag)

(Autoclaves)

VOLZHENSKIY, A.V., doktor tekhn.nauk, prof.; GLADKIKH, K.V., inzh.; VINOGRADOV, B.N.

Hardening of binding materials based on granulated fuel slags. Sbor. Wruf. VNIINSM no.2:52-74 '60. (MIRA 15:1)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Volzhenskiy).

(Slag)
(Binding materials)

VOIZHENSKIY, A.V., prof., zasluzhennyy deyatel' nauki i tekhniki RSFSR; IL'YENKO, I.A., aspirant

Heavy and light concretes with oinders of granulated clinkers. Stroi.mat. 8 no.1:31-35 Ja '62. (MIRA 15:5)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Volzhenskiy).

(Concrete)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860810002-5

VOLZHENSKIY, A.V., prof.

Organization of the production of building elements based on gypsum-cement-pozzolan binding materials. Stroi.mat. 8 no.3:17-18 Mr '62. (MIRA 15:8)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR.

(Building materials industry)

VOLZHENSKIY, A.V., prof.; FERRONSKAYA, A.V., inzh.

Cellular concretes with gypsum-cement-pozzolan binders. Bet. i zhelebet. no. 3:123-126 Mr '61. (MIRA 14:5)

l. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR. (Lightweight concrete)

VOLZHENSKIY, A.V., prof.; VINOGRADOV, B.N., inzh.

Composition of overburned lime and causes of overburning. Stroi.
mat. 7 no.6:30-32 Je '61. (HIRA 14:7)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury
SSSR (for Volzhenskiy). (Lime)

8/081/61/000/021/056/094 B110/B101

AUTHORS:

Volzhenskiy, A. V., Ferronskaya, A. V.

TITLE:

Honeycomb concretes on the basis of gypsum-cement-

puzzolano bindera

PERIODICAL: Referativnyy zhurnal. Khimiva, no. 21, 1961, 314, abstract

21K329 (Beton i zhelezobeton, no. 3, 1961, 123-126)

TEXT: The physical and mechanical properties of honeycomb concretes on the basis of gypsum-cement-puzzolano binders were studied. They contained 50-60% of gypsum-semihydrate, 20-30% of Portland cement and 10-30% of an active hydraulic additive. The latter was added to reduce the Ca concentration to 1 g/liter in aqueous solution during the hardening in the first days. Rapidly hardening, non-autoclaved, frost- and water resistant honeycomb concretes were obtained with a volume weight of $400-900 \text{ kg/m}^3$ and a strength of 15-45 kg/cm², with a cement consumption of $\sim 100 \text{ kg/m}^3$. They were produced by mixing the initial components: Card 1/2

8/081/61/000/021/056/094 ## B110/B101

binder, sand and gas- or foam forming additives and by hardening the products in air at ordinary temperatures or by heat treatment at 75°C.

[Abstracter's note: Complete translation.]

Card 2/2

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860810002-5

VOLZHENSKIY, Aleksandr Vasil'yevich, prof.; POPOV, Lsonid Nikolayevich, kand. tekhm. nauk; CHERKINSKAYA, R.L., red. izd-va; ABRAMOVA, V.A., tekhm. red.

[Repeatedly-ground blended portland cements and concretes made from them] Smeskinnye portlandtsementy povtornogo pomola i betony na ikh osnove. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 105 p. (MIRA 14:9)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Volzhenskiy).

(Portland cement) (Concrete)

VOLZHENSKIY, A.V., prof.; GAYGALAS, K.P., inzh.

Binding materials based on peat cinders. Stroi. mat. 7 no. 1:22-25 Ja 161. (MIRA 14:1)

1. Devstvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Volzhenskiy).

(Binding materials)

VOIZHRNSKIY, A.V., prof.; GIADEIKH, K.V., insh.; VINOGRADOV, B.W., insh.

Investigating the hardening processes in binding materials made with granular furnace slags. Stroi. mat. 6 no.6:31-33 Je '60. (MIRA 13:6)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Volzhenskiy). (Binding materials) (Slag)

VOIZHENSKIT, A.V., prof.; POPOV, L.N., kand.tekhn.nauk

High-atrength fine grained concretes made with sandy portland cements. Bet. i zhel.-bet. no.2:51-55 F 160. (MIRA 13:6)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Volzhenskiy) (Lightweight concrete)

VOLZHENSKIY, A.V. Prof.

Objectives in the production and use of autoclave-hardened and other products in precast construction. Stroi.nat. 6 no.1:17-20 Ja '60. (MIRA 13:5)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR.

(Precast concrete) (Lightweight concrete)

VOLZHENSKIY, A.V.; prof.; SILAYENKOV, Ye.S., kand.tekhn.nauk; KHARINA, T.V., inzh.

Resistance of autoclave-hardened slag-sand materials subjected to the action of corrosive media. Stroi.mat. 5 no.11:32-34 N 159. (MIRA 13:3)

l. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury (for Volzhenskiy).
(Concrete—Corrosion)

VOLZHENSKIY. A.V., prof.; ROGOVOY, M.I.; STAMBULKO, V.I.; SHPAYER,

A.L., red.izd-va; OSEMKO, L.M., tekhm.red.

[Gypsum-cement and gypsum-slag binding materials and products]

Gipsotsementnye i gipsoshlakovye viazhmshchie i izdeliia. Pod

obshchei red. A.V.Volzhenskogo. Moskva, Gos.izd-vo lit-ry po

stroit., arkhit. i stroit.materialam, 1960. 166 p.

(MIRA 13:6)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury

SSSR (for Volzhenskiy).

(Gypsum) (Binding materials)

VOLZHENSKIY, A.V.; GLADKIKH, K.V., inzh.

Fine grained concretes and building products based on binder made of granulated furnace slags. Stroi. mat. 6 no.10:22-25 0 (MIRA 13:10)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR.

(Building materials)

VOLZHENSKIY, A.V., prof.; TIRANOVA, T.M., inzh.

Clinkerless binding materials made out of inosphoric slag.
Stroi. mat.9 no.6:31-33 Je '63. (MIRA 17:8)

1. Deystvitel'nyy ohlen Akademii stroitel'stva i crkhitektury
SSSR (for Volzhenskiy).

3/058/63/000/003/064/104 A059/A101

AUTHORS:

Pashkovs"kyy, M. V., Volzhens"kyy, D. S., Svyekolkina, L. G.

TITLE:

The synthesis of crystals of the oxide system Cu_2O - V_2O_5

PERIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1963, 49, abstract 3E325 ("Visnyk L"vivs"k. ur.-tu. Ser. Fiz.", 1962, no. 1(8). 115 - 116.

Ukrainian)

By cooling the melt at a rate of 2 degrees per hour from a temperature of 700°C, single crystals of enemical compounds were grown with the properties of copper oxide - vanadium oxide bronzes. The curves of differential thermal Larysis are given permitting to find the phase transition points of alloys with different contents of Cu_2O and $\text{V}_2\text{O}_{\text{G}}$.

V. Kosevich

[Abstractor's note: Complete translation]

Card 1/1

8/078/63/008/001/025/026 B117/B108

AUTHORS:

Volzhenskiy, D. 3., Pashkovskiy, M., V., Svekolkina, L. G.

TITLE:

Some physical properties of oxygen-containing copper

vanadium and silver vanadium bronzes

PERIODICAL:

Zhurnal neorganicheskoy khimii, v. 8, no. 1, 1963, 255-257

TEXT: The physical properties of bronze single crystals grown by slow cooling of melts from vanadium pentoxide with 20, 25, and 30% by weight of copper-(I) oxide or silver nitrate have been studied. Shape, color, and yield of the bronzes depended on the content of copper and silver in the melt. The crystal structure was little affected by heat treatment (400°C) in air or in vacuo. The electrical conductivity of the copper vanadium bronze increased with increasing copper concentration and temperature. The electrical conductivity of silver vanadium bronze produced from the melt with 20 and 25% AgNO, showed a similar temperature dependence. For samples obtained from the melt with 30% AgNO3, the electrical conductivity decreased at higher temperatures. The thermo-emf was of the same order for Card 1/2

Some physical properties of ...

S/078/63/008/001/025/026 B117/B108

the two bronze types, and increased with increasing temperature within a wide range. For samples with 25 and 30% Cu₂0 or 30% AgNO₃, the thermo-emf changes its sign twice in the vicinity of -100°C. The thermo-emf of all other samples showed a maximum in the negative centigrade range, and was nearly constant between -50 and +150°C. Also the Hall constant changes its sign twice within the same temperature range. This is attributed to phase transitions. There are 2 figures and 1 table.

ASSOCIATION:

L'vovskiy gosuniversitet im. Iv. Franko (L'vov State

University imeni Iv. Franko)

SUBMITTED:

April 26, 1962

Card 2/2

PASHKOVSKIY, M.V. [Pashkovs'kyi, M.V.]; VOLZHENSKIY, D.S. [Volzhens'kyi, D.S.]

Studying the properties of the semiconductor systems Cu₂O·hi₂O₅ and Cu₂O·V₂O₅. Ukr. fiz. zhur. 6 no.4:549-555 Jl-Ag (61. (MIRA 14:9))

1. L'vovskiy gosudarstvennyy universitet im. Iv. Franko. (Semiconductors)

VOLZHENSKIY, D.S.; PASHKOVSKIY, M.V.; SVEKOLKINA, L.G.

Physical properties of oxygen vanadium bronzes of copper and silver. Zhur.neorg.khim. 8 no.1:255-257 Ja *63. (MIRA 16.5)

1. Livovskiy gosudarstvennyy universitet imeni Iv.Franko. (Vanadium bronzes)

PASHKOVSKIY, M.V.; RYEALKA, V.V.; VOLZHENSKIY, D.S.

Simple device for regulating the temperature under laboratory conditions. Prib. i tekh. eksp. no.6:134 H-D '60. (MERA 13:12)

1. L'vovskiy gosudarstvennyy universitet.

(Temperature regulators)

VOLZHENSKIY, D.S.

27968 S/185/61/006/004/013/015 D274/D303

24.7700 (1035, 1043, 1164)

AUTHOLS: F

Pashkovs'kyy, M.V. and Volzhens'kyy, D.S.

TITLE:

Study of properties of semiconductor systems Cu20.

Nb205 and Cu20. V205

PERIODICAL:

Ukrayins'kyy fizychnyy zhurnal, v. 6, no. 4, 1961,

549-554

TEXT: The substances used in the investigation were Cu_20 , V_20_5 and Nb_20_5 of type (grade) "ChDA". The specimens (in the form of tablets with diameter 8 mm and thickness 2-4 mm) were sintered in an electric furnace in an atmosphere of air at a temperature of 1200°C for 3 hours: Then they were cooled in air. The resistivity of the specimens was measured. A figure shows log plotted against weight % of Cu_20 for the specimens $\mathrm{Cu}_20\cdot\mathrm{Nb}_20_5$. This dependence has a linear character. Hence the conclusion that the obtained system $\mathrm{Cu}_20\cdot\mathrm{Nb}_20_5$ is a mechanical mixture of components. This

Card 1/4

27968 S/185/61/006/004/013/015 D274/D303

Study of properties...

is also confirmed by microstructural and X-ray analysis. The system Cu₂0·V₂0₅ was similarly prepared, melted in crucibles and tempered in cold, distilled water. The resistivity of such specimens was measured. The obtained curves show a minimum in the region of 50 weight %. The presence of a singular point on the curves, three phases in some specimens, as well as the results of X-ray structural analysis, lead to the conclusion that a chemical compound was formed under the given conditions. A picture of one of the obtained alloys is shown. The resistivity measured in single crystals of specimens with 30 to 50 weight % Cu₂0, was approximately 10⁻¹ ohm/cm. With further increase in Cu₂0 content, the resistivity increases, approaching the resistivity of pure Cu₂0. For crystals with 30, 50 and 60 weight % Cu₂0, the temperature dependence of the electrical conductivity was measured over a temperature range of -160 to +23°C, and the activation energy of carriers calculated. The graphs show, for all the specimens, an increase in conductivity with temperature. The activation energy is constant (equal to 0.25 eV) from -160 to -20°C; at higher temperatures it decreases,

Card 2/4

27968 S/185/61/006/004/013/015 D274/D303

Study of properties ...

but it increases with resistivity of specimen, i.e. it depends on how the specimen was obtained. Further, the electrical properties of Cu₂0·V₂0₅ are compared with those of V₂0₅. Such a comparison shows that the semiconductor properties of the oxygenic lattice V0₆ appear quite strongly. Whereas in the case of natrium tungstenbronzes the penetration of Na-atoms into the W0₃-lattice led to conductivity of a metallic character, in the case of vanadium pentoxide, only a negligible increase in conductivity was observed. The author suggests the following interpretation of the results obtained. The copper atoms yield their valence electrons to the covalent bond with oxygenic lattice, forming in the forbidden zone of vanadium pentoxide additional donor levels. This assumption is supported by Neubuhr's theory (Ref. 21: F.F. Vol'kensteyn, Electroprovodnost' poluprovodnikov (Electrical Conductivity of Semiconductors), M.-L., 1947). The decrease in activation energy of copper-vanadium bronzes compared to pure vanadium pentoxide, is due to the location of levels in the new chemical compound and to their concentration. There are 6 figures and 21 references: 13 Soviet-bloc and 8 non-Sov-

Card 3/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860810002-5"

27968 \$/185/61/006/004/013/015 D274/D303

Study of properties ...

iet-bloc. The 4 most recent references to English-language publications read as follows: L.E. Conroy, M.J. Sienko, J. Am. Chem. Soc., 79, 4048, 1957; M.J. Sienko, J. Am. Chem. Soc., 81, 5556, 1959; A.D. Wadsley, Acta Cryst., 8, 695, 1955; L.H. Brixner, J. Inorg. Nucl. Chem., 14, 225, 1960.

ASSOCIATION:

L'vivs'kyy derzhuniversytet im. Iv. Franka (L'vov

State Uriversity im. Iv. Franko)

SUBMITTED:

December 26, 1960

Card 4/4

